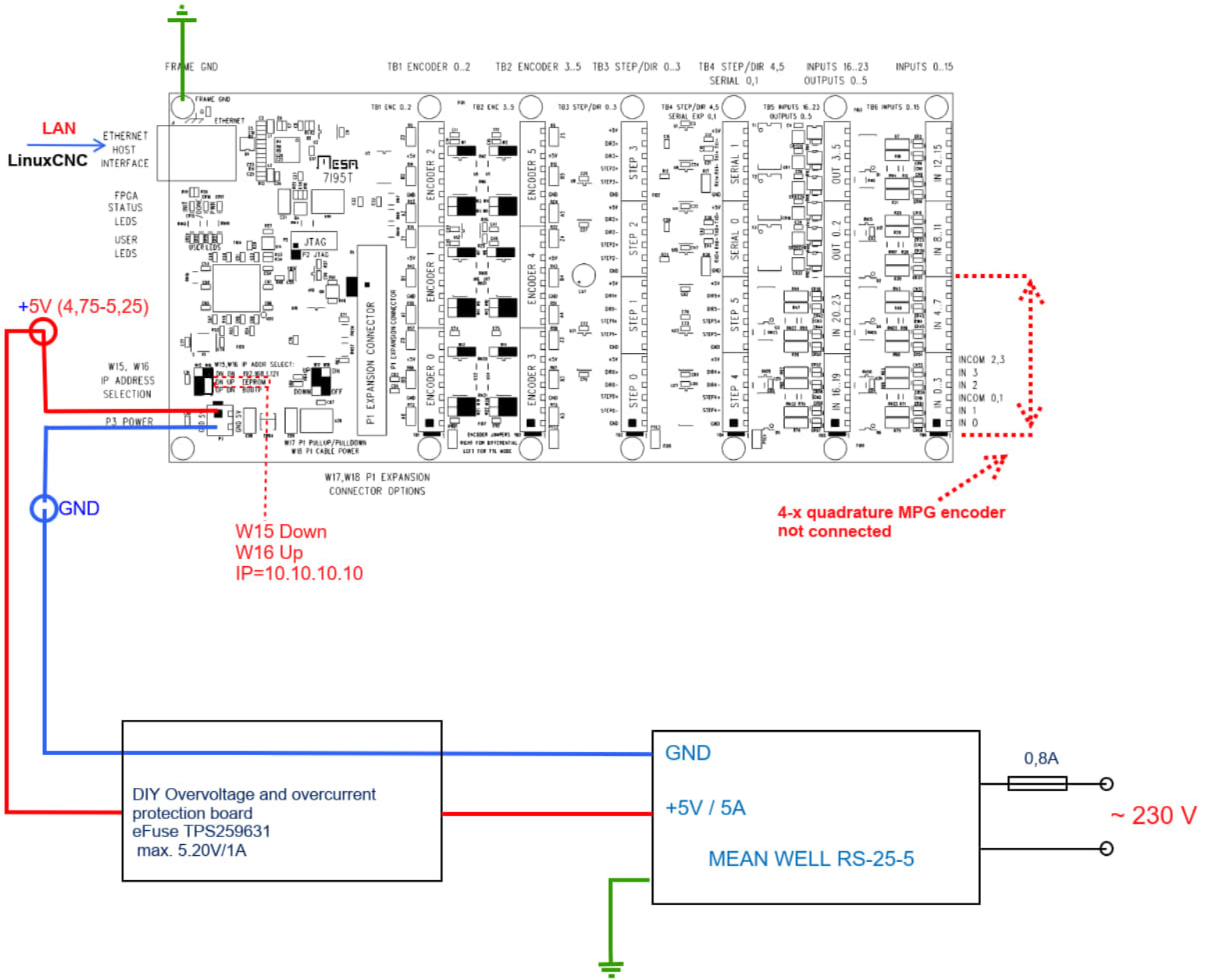
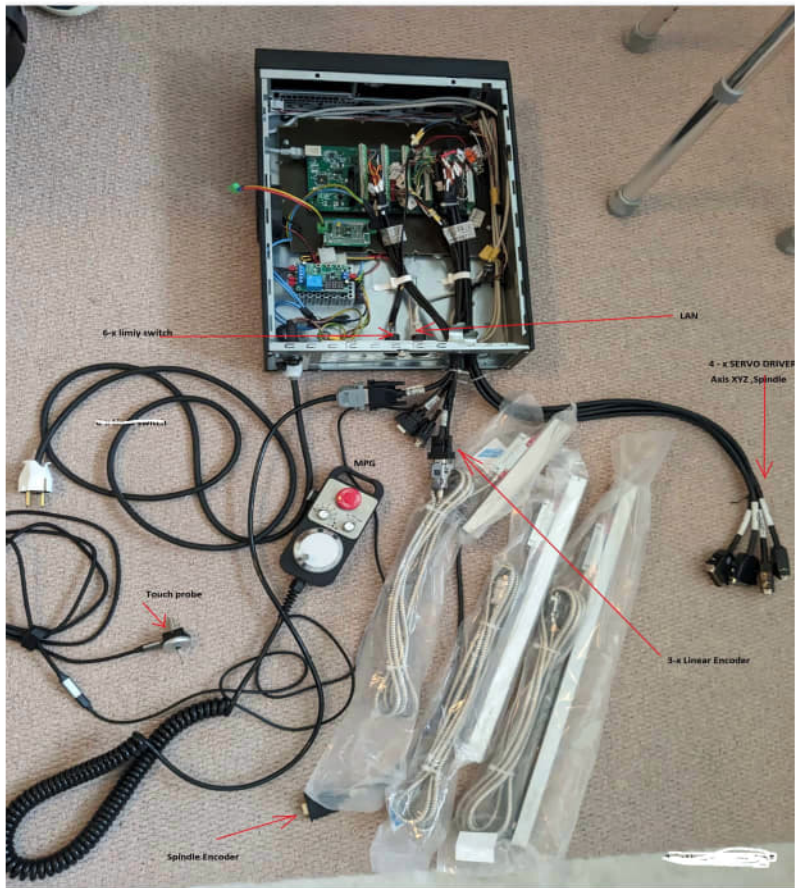


# Mesa 7i95T





1	00 NI
2	10 NI
3	COM
4	20 NI
5	30 NI
6	COM
7	40 NI
8	50 NI
9	COM
10	90 NI
11	70 NI
12	COM
13	80 NI
14	60 NI
15	COM
16	01 NI
17	11 NI
18	COM
19	21 NI
20	31 NI
21	COM
22	41 NI
23	51 NI
24	COM

TB 6

1	91 NI
2	11 NI
3	COM
4	81 NI
5	61 NI
6	COM
7	02 NI
8	12 NI
9	COM
10	22 NI
11	32 NI
12	COM
13	-01 NO
14	+01 NO
15	-11 NO
16	+11 NO
17	-21 NO
18	+21 NO
19	-31 NO
20	+31 NO
21	-41 NO
22	+41 NO
23	-51 NO
24	+51 NO

TB 5

1	GND
2	+71 UD
3	+41 UD
4	-41 UD
5	+41 UD
6	DV5+
7	GND
8	-51 UD
9	+51 UD
10	-51 UD
11	+51 UD
12	DV5+
13	GND
14	+01 XD
15	-01 XD
16	+01 XD
17	-01 XD
18	DV5+
19	GND
20	+11 XR
21	-11 XR
22	+11 XR
23	-11 XR
24	DV5+

TB 4

1	GND
2	+01 UD
3	+01 UD
4	-01 UD
5	+01 UD
6	DV5+
7	GND
8	-11 UD
9	+11 UD
10	-11 UD
11	+11 UD
12	DV5+
13	GND
14	21 UD
15	+21 UD
16	-21 UD
17	+21 UD
18	DV5+
19	GND
20	-31 UD
21	+31 UD
22	-31 UD
23	+31 UD
24	DV5+

TB 3

SPINDLE 800W      Axis Z 400W      Axis Y 400W      Axis X 400W

1	3 VO
2	3 VO/
3	GND
4	3 BO
5	3 BO/
6	V5+
7	3 XDI
8	3 XDI/
9	4 VO
10	4 VO/
11	GND
12	4 BO
13	4 BO/
14	V5+
15	4 XDI
16	4 XDI/
17	5 VO
18	5 VO/
19	GND
20	5 BO
21	5 BO/
22	V5+
23	5 XDI
24	5 XDI/

TB 2

1	0 VO
2	0 VO/
3	GND
4	0 BO
5	0 BO/
6	V5+
7	0 XDI
8	0 XDI/
9	1 VO
10	1 VO/
11	GND
12	1 BO
13	1 BO/
14	V5+
15	1 XDI
16	1 XDI/
17	2 VO
18	2 VO/
19	GND
20	2 BO
21	2 BO/
22	V5+
23	2 XDI
24	2 XDI/

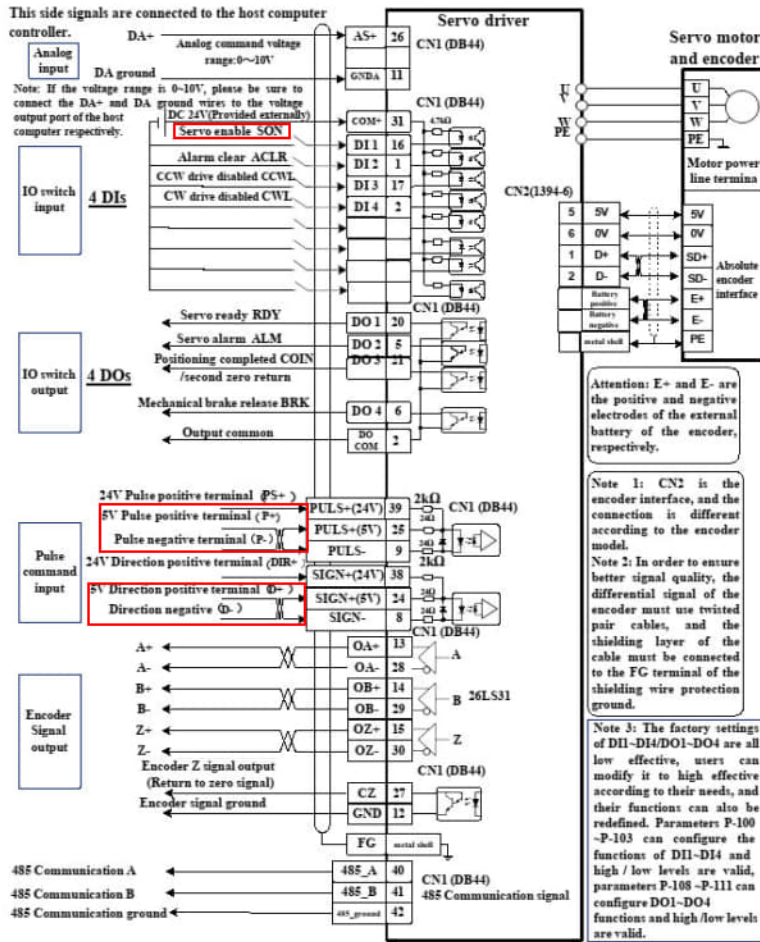
TB 1

4- x Servo Enable ON

4-x Step-Dir  
AC SERVOMOTOR  
T3D series ~230V

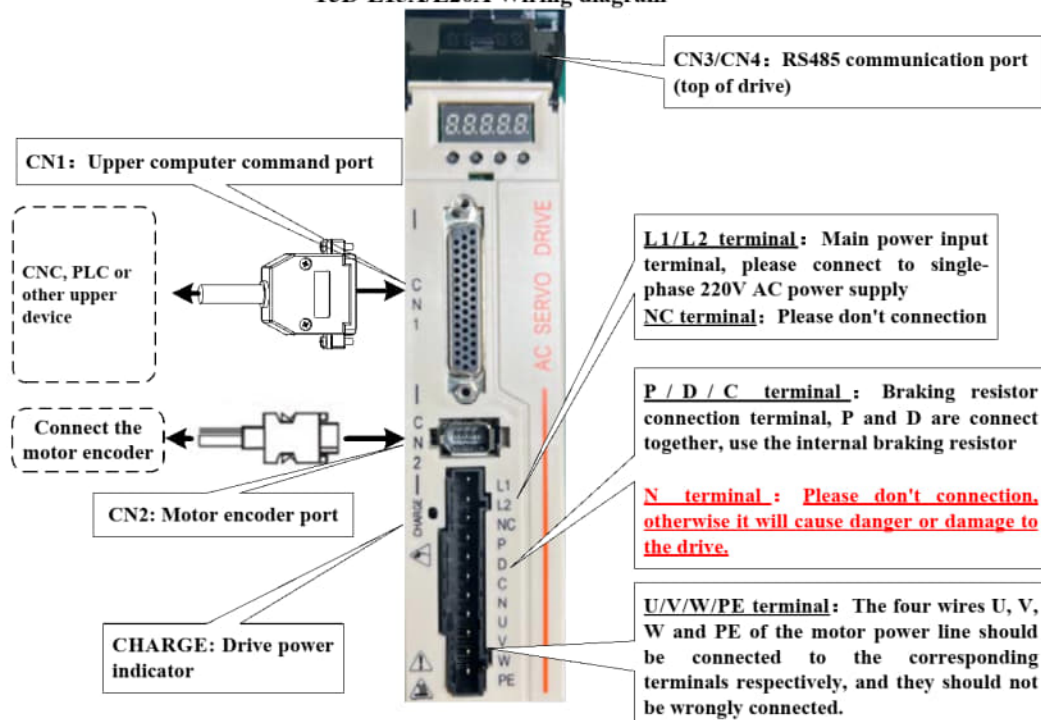


### 1.3 Connection diagram of control port CN1 and encoder port CN2



**Attention:**

### T3D-L15A/L20A Wiring diagram



**TB 6**

1	00 NI
2	10 NI
3	COM
4	20 NI
5	30 NI
6	COM
7	40 NI
8	50 NI
9	COM
10	90 NI
11	70 NI
12	COM
13	80 NI
14	60 NI
15	COM
16	01 NI
17	11 NI
18	COM
19	21 NI
20	31 NI
21	COM
22	41 NI
23	51 NI
24	COM

**TB 5**

1	91 NI
2	11 NI
3	COM
4	81 NI
5	61 NI
6	COM
7	02 NI
8	12 NI
9	COM
10	22 NI
11	32 NI
12	COM
13	-0 TNO
14	+0 TNO
15	-1 TNO
16	+1 TNO
17	-2 TNO
18	+2 TNO
19	-3 TNO
20	+3 TNO
21	-4 TNO
22	+4 TNO
23	-5 TNO
24	+5 TNO

**TB 4**

1	GND
2	+7 TUD
3	+4 TUD
4	-4 RID
5	+4 RID
6	DV5+
7	GND
8	-5 TUD
9	+5 TUD
10	-5 RID
11	+5 RID
12	DV5+
13	GND
14	+0 XR
15	-0 XR
16	+0 XL
17	-0 XL
18	DV5+
19	GND
20	+1 XR
21	-1 XR
22	+1 XL
23	-1 XL
24	DV5+

**TB 3**

1	GND
2	+0 TUD
3	+0 TUD
4	-0 RID
5	+0 RID
6	DV5+
7	GND
8	-1 TUD
9	+1 TUD
10	-1 RID
11	+1 RID
12	DV5+
13	GND
14	+2 TUD
15	-2 TUD
16	+2 RID
17	-2 RID
18	DV5+
19	GND
20	-3 TUD
21	+3 TUD
22	-3 RID
23	+3 RID
24	DV5+

**TB 2**

1	3 VO
2	3 VO/
3	GND
4	3 BO
5	3 BO/
6	V5+
7	3 XDI
8	3 XDI/
9	4 VO
10	4 VO/
11	GND
12	4 BO
13	4 BO/
14	V5+
15	4 XDI
16	4 XDI/
17	5 VO
18	5 VO/
19	GND
20	5 BO
21	5 BO/
22	V5+
23	5 XDI
24	5 XDI/

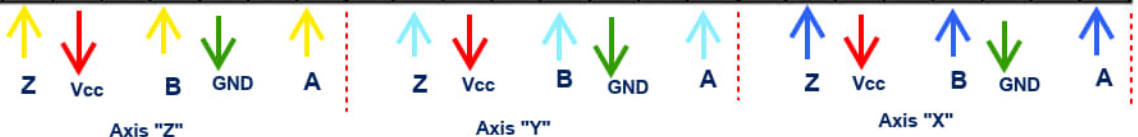
TTL Mode



**TB 1**

1	0 VO
2	0 VO/
3	GND
4	0 BO
5	0 BO/
6	V5+
7	0 XDI
8	0 XDI/
9	1 VO
10	1 VO/
11	GND
12	1 BO
13	1 BO/
14	V5+
15	1 XDI
16	1 XDI/
17	2 VO
18	2 VO/
19	GND
20	2 BO
21	2 BO/
22	V5+
23	2 XDI
24	2 XDI/

3 -x Linear Encoder  
SINO KA- 500

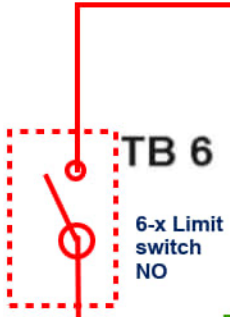


### DB-9 Connection method of TTL Signals

Pin	1	2	3	4	5	6	7	8	9
Signal	/	0V	/	/	/	A	+5V	B	Z



X1 X2 Y1 Y2 Z1 Z2



24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
IN 12 ... 15						IN 08 ... 11						IN 04 ... 07						IN 00 ... 03					
5T NI						0T NI						90 NI						00 NI					
MOC						MOC						MOC						MOC					

24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
OUT 03 ... 05						OUT 02 ... 00						IN 20 ... 23						IN 16 ... 19					
+5 LNO						+1 LNO						32 NI						81 NI					
MOC						MOC						MOC						MOC					

24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
RS-422/485 (1)						RS-422/485 (0)						Schrittmotor (5)						Schrittmotor (4)					
-1 XL						+0 XL						+5 RID						+7 RID					
DV5+						DV5+						DV5+						DV5+					

V-COM (GND\_Sinking input)

24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Schrittmotor (3)						Schrittmotor (2)						Schrittmotor (1)						Schrittmotor (0)					
+3 RID						+2 RID						+1 RID						+0 RID					
DV5+						DV5+						DV5+						DV5+					

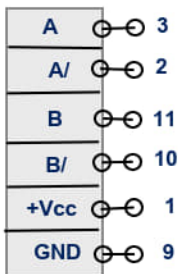
24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
ENCODER 5						ENCODER 4						ENCODER 3											
5 XD/						4 XD/						3 XD/											
5 XD/						5 VO						5 VO											

24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
ENCODER 2						ENCODER 1						ENCODER 0											
2 XD/						1 XD/						0 XD/											
2 XD/						2 VO						2 VO											

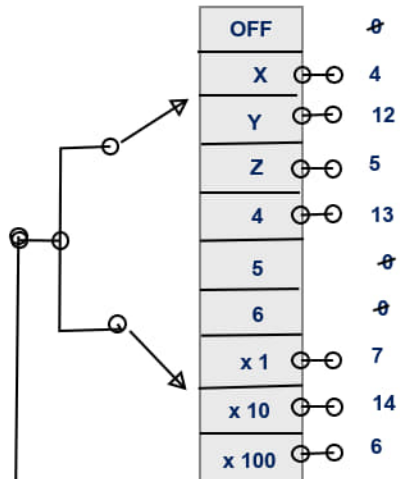




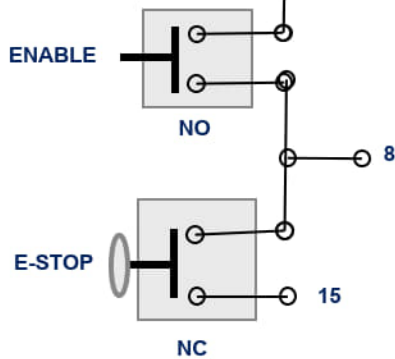
PIN DB-15



MPG WHEEL

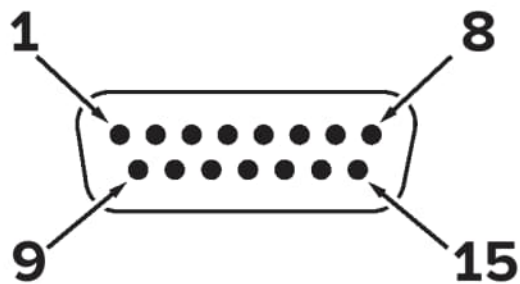


MPG SWITCH



MPG COM (+5V)

E-STOP



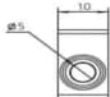
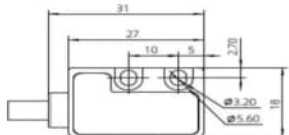
DB15 Male Connector (Device)

MPG

# Spindle encoder

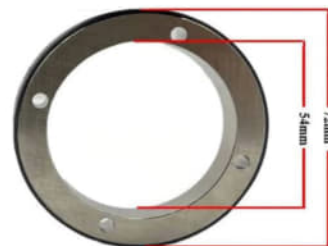
Applicable to: 9 pin socket ELA-422-A signal Output.

Pin Position	1	2	3	4	5	6	7	8	9
Signal	A	0V	B	Empty	Z	A	+5V	B	Z



**Magnetic head parameters**  
**П а р а м е т р ы И н с т р у м е н т а**

resolution ratio	0.001mm
INPUT VOLTAGE	5V DC
signal type	Incremental pulse signal
OUTPUT	A A- B B- Z Z- 0V 5V
cable Length	1.5M



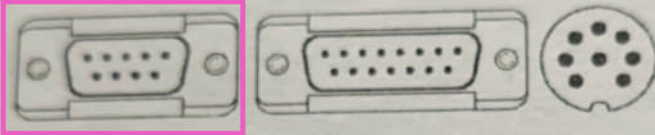
## HDR-72114

**Basic parameters**

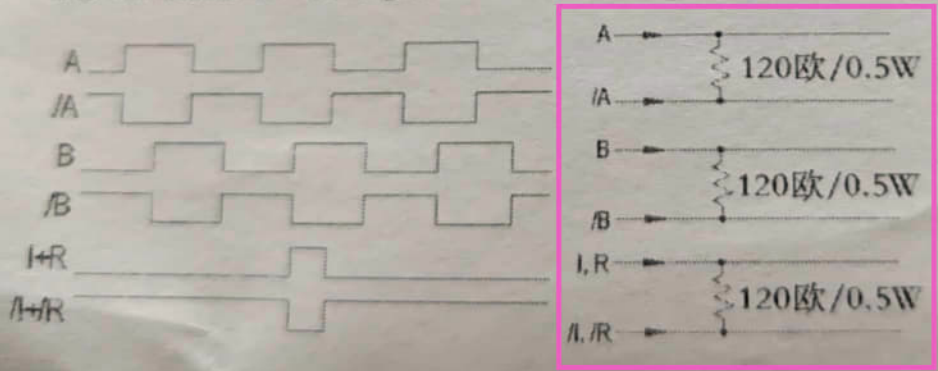
outside diameter	72
Внешний диаметр	72
inside diameter	54
Внутренний диаметр	54
width	10
Ширина	10
Number of magnetic poles	114
Число магнитных полюсов	114
Magnetic pole width	2
Ширина магнитных полюсов	2
Pulse count	114000 P/R

### ■ Connecting of the magnetic reading head to the instrument

1. Magnetic reading head output wire  
The default output wire length is 200cm, and the special length needs to be customized. All bare wire output wires are equipped with signal identification stickers at the end to facilitate customer wiring. DB9, DB15, 7 core aviation plug and other special ports need to be customized.



2. Output signal and receiving circuit  
The output signal is the differential RS422 signal. It is recommended that the receiver use 120 euro matching resistance to improve the anti-interference resistance and reduce the influence of the signal reflection.



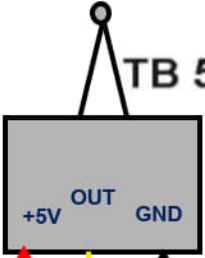
1	00 NI
2	10 NI
3	COM
4	20 NI
5	30 NI
6	COM
7	40 NI
8	50 NI
9	COM
10	90 NI
11	70 NI
12	COM
13	80 NI
14	60 NI
15	COM
16	01 NI
17	11 NI
18	COM
19	21 NI
20	31 NI
21	COM
22	41 NI
23	51 NI
24	COM

TB 6

Touch probe 3D

1	91 NI
2	11 NI
3	COM
4	81 NI
5	61 NI
6	COM
7	02 NI
8	12 NI
9	COM
10	22 NI
11	32 NI
12	COM
13	-0 TNO
14	+0 TNO
15	-1 TNO
16	+1 TNO
17	-2 TNO
18	+2 TNO
19	-3 TNO
20	+3 TNO
21	-4 TNO
22	+4 TNO
23	-5 TNO
24	+5 TNO

TB 5



1	GND
2	-4 TUD
3	+4 TUD
4	-4 RID
5	+4 RID
6	DV5+
7	GND
8	-5 TUD
9	+5 TUD
10	-5 RID
11	+5 RID
12	DV5+
13	GND
14	+0 XR
15	-0 XR
16	+0 XL
17	-0 XL
18	DV5+
19	GND
20	+1 XR
21	-1 XR
22	+1 XL
23	-1 XL
24	DV5+

TB 4

1	GND
2	-0 TUD
3	+0 TUD
4	-0 RID
5	+0 RID
6	DV5+
7	GND
8	-1 TUD
9	+1 TUD
10	-1 RID
11	+1 RID
12	DV5+
13	GND
14	2 TUD
15	-2 TUD
16	2 RID
17	-2 RID
18	DV5+
19	GND
20	-3 TUD
21	+3 TUD
22	-3 RID
23	+3 RID
24	DV5+

TB 3

1	3 VO
2	3 VO/
3	GND
4	3 BO
5	3 BO/
6	V5+
7	3 XDI
8	3 XDI/
9	4 VO
10	4 VO/
11	GND
12	4 BO
13	4 BO/
14	V5+
15	4 XDI
16	4 XDI/
17	5 VO
18	5 VO/
19	GND
20	5 BO
21	5 BO/
22	V5+
23	5 XDI
24	5 XDI/

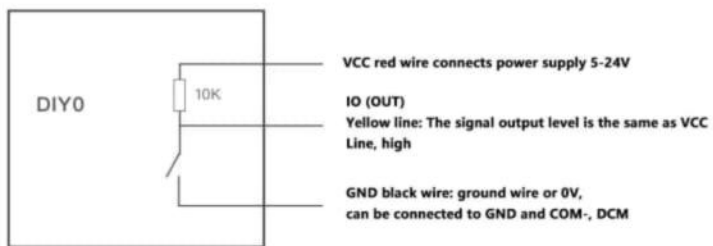
TB 2

1	0 VO
2	0 VO/
3	GND
4	0 BO
5	0 BO/
6	V5+
7	0 XDI
8	0 XDI/
9	1 VO
10	1 VO/
11	GND
12	1 BO
13	1 BO/
14	V5+
15	1 XDI
16	1 XDI/
17	2 VO
18	2 VO/
19	GND
20	2 BO
21	2 BO/
22	V5+
23	2 XDI
24	2 XDI/

TB 1



### NPN-NO



The green light is always on after power on, the output of the 10 port is high, the red light is on after the probe is triggered, and the 10 is low)

[https://www.youtube.com/channel/UC\\_zOVvs96VKX6R\\_DIO5KyJg](https://www.youtube.com/channel/UC_zOVvs96VKX6R_DIO5KyJg)